

# JVC

## SERVICE MANUAL

MODEL

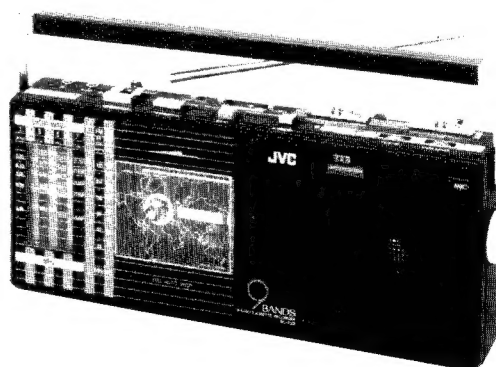
**RC-S22 C/W/JW/WH**

FM-AM-SW

**RC-S22 L/LB/LD**

FM-MW-LW-SW

9-BAND RADIO CASSETTE RECORDER



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# Specifications

|                    |   |                             |                              |  |
|--------------------|---|-----------------------------|------------------------------|--|
| Frequency range    | : FM  | 88–108 MHz                  | S/N ratio                    | : 40 dB (NORM)   |
|                    | AM/MW   | 540–1600 kHz                | Rewind and fast-forward time | : Approx. 105 sec. (C-60 cassette)   |
|                    | LW  | 150–350kHz (L/LB/LD)        | Speaker                      | : 8 cm (3-3/16") x 1, 8 Ω  |
|                    | SW1   | 5.95–6.2 MHz                | Motor                        | : Capstan (Electronic governor)  |
|                    | SW2   | 7.1–7.3 MHz                 | Heads                        | : R/P ; permalloy<br>Erase ; Magnet  |
|                    | SW3   | 9.5–9.8 MHz                 | Power output                 | : 1.1 W max. (8 Ω)   |
|                    | SW4   | 11.7–12.0 MHz               | Jacks                        | : Earphone x 1<br>MIC x 1<br>Ext. DC 6V x 1                                |
|                    | SW5   | 15.1–15.45 MHz              | Power supply                 | : DC 4.5 V (3 "AA" size cells) (C/W/JW/WH)<br>DC 45 V (3 "R6" size celles) |
|                    | SW6   | 17.7–17.9 MHz               | Power consumption            | : 5.4 W AC (using the AC adaptor)  |
|                    | SW7   | 21.45–21.75 MHz (JW/W/C/WH) | Dimensions                   | : 243.5(W) x 104(H) x 71.5(D) mm<br>(9-5/8" x 4-1/8" x 2-7/8")             |
| Antennas           | : Telescopic antenna for FM and SW1–SW7 (C/W/JW/WH) (L/LB/LD) | SW1–SW6                     | Weight                       | : 0.75 kg (1.65 lbs) (without batteries)                                   |
|                    | Ferrite core antenna for AM (MW) & SW1                        |                             |                              |  |
| Track system       | : 2-track, monaural   |                             |                              |  |
| Wow and flutter    | : 0.2 % (WRMS)  |                             |                              |  |
| Frequency response | : 100 Hz – 8 kHz<br>(Speaker terminals: NORM)                 |                             |                              |  |


Design and specifications are subject to change without notice.

# Safety Precaution

## Safety Component Parts List

| Ref. No. | Parts No.   | Parts Name      | Remarks   | Q'ty |
|----------|-------------|-----------------|-----------|------|
| R1       | QRS188J-181 | M. G. Resistor  | 180Ω 1/8W | 1    |
| R12      | " -470      | "               | 47Ω "     | 1    |
| R302     | " -220      | "               | 22Ω "     | 1    |
| R304     | " -680      | "               | 68Ω "     | 1    |
| R305     | " -221      | "               | 220Ω "    | 1    |
| R307     | QRD161J-101 | Carbon Resistor | 100Ω 1/6W | 1    |
| IC4,5    | TA7331P     | IC              | Power Amp | 2    |
| —        | XDE-5A3LE   | Motor           |           | 1    |

## Safety mark

Safety is very important with this unit. When replacing the parts marked  , be sure to use only those designated parts. The designated resistors, diodes, transistors become hot in use. When replacing, be sure to secure them with a distance of more than 5 mm from the circuit board. In addition, they are banded together to avoid touching other wiring, recheck this point as well after repair.

The wiring of the primary side should be wound more than one and half times, then soldered.

## Controls and Connections

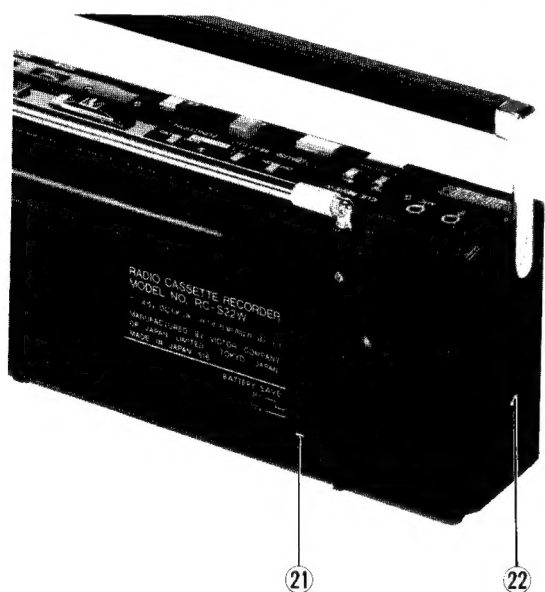
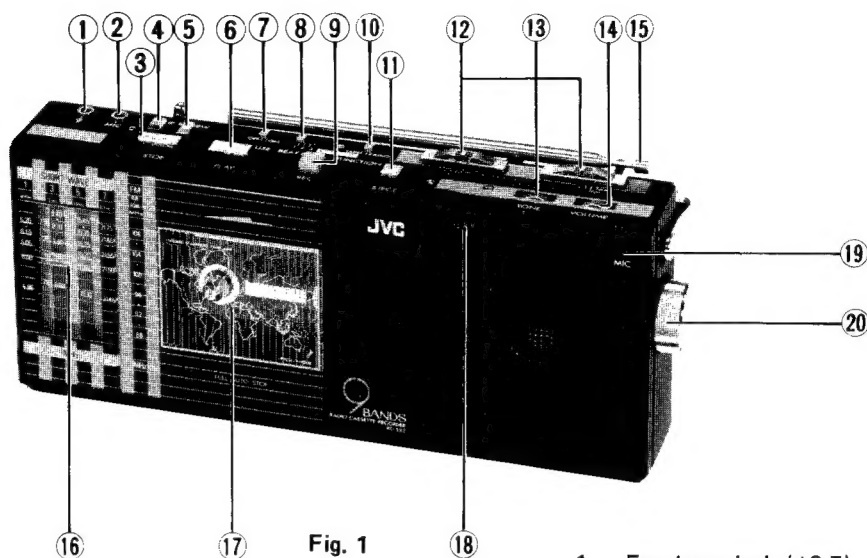


Fig. 2

1. Earphone jack ( $\phi 3.5$ )
2. MIC jack ( $\phi 3.5$ )
3. STOP button
4. CUE button
5. REVIEW button
6. PLAY button
7. PAUSE switch
8. BEAT CUT switch
9. REC button
10. FUNCTION switch (TAPE/RADIO OFF/RADIO)
11. EJECT button
12. BAND SELECTOR switch (AM/FM/SW1-7)
13. TONE control
14. VOLUME control
15. Telescopic antenna
16. Tuning pointer
17. Cassette door
18. Tape counter/Reset button
19. Built-in Microphone
20. Tuning knob
21. BATTERY SAVE switch
22. DC input jack (DC 6 V)

## How To Engage Dialrope

1. Turn the dial drum fully counterclockwise (to the lowest frequency).
2. Use tetron cord (850 mm long and 0.5 mm in diameter) with applied micro wax.
3. Install the string in the sequence of the numbers.

When removing the P.W. board, leave the dial string as it is set on the drum.

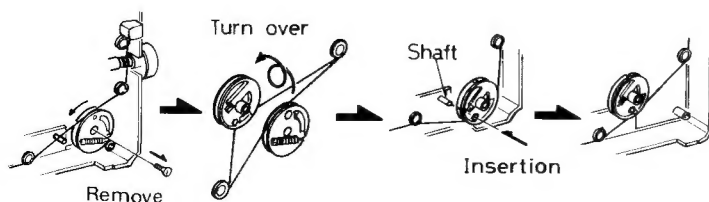


Fig. 3

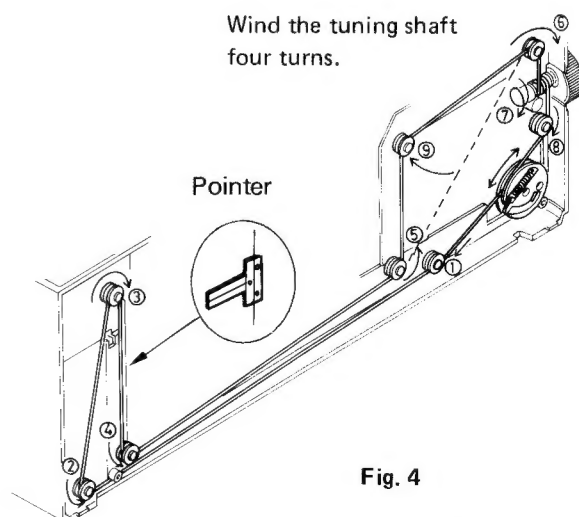


Fig. 4

# Main Parts Location

## ■ Chassis Base Assembly

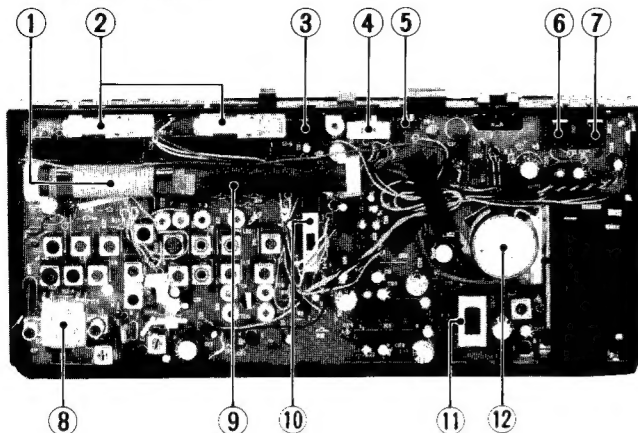


Fig. 5

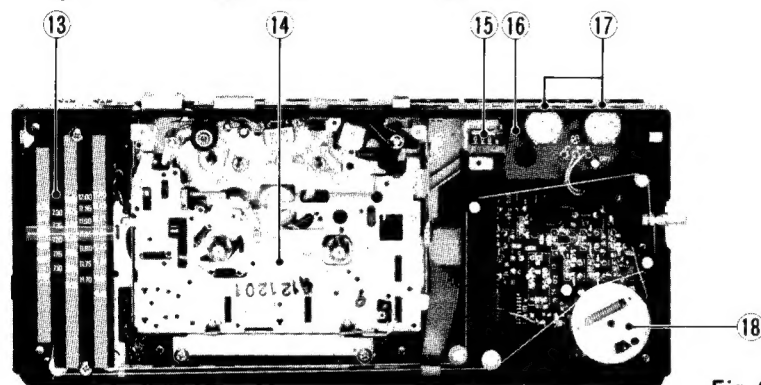


Fig. 6

1. Bar antenna assembly (ferrite core)
2. BAND SELECTOR switch
3. FUNCTION switch (TAPE/RADIO)
4. BEAT CUT switch
5. PAUSE switch
6. MIC jack
7. Earphone jack
8. V. capacitor
9. Main P.W. board assembly
10. P.B./Rec slide switch
11. BATTERY SAVE switch
12. Motor
13. Dial scale
14. Mechanical assembly
15. Tape counter/Reset button
16. V. resistor P.W. board assembly
17. V. resistor assembly
18. Dial drum

## ■ Mechanical Parts

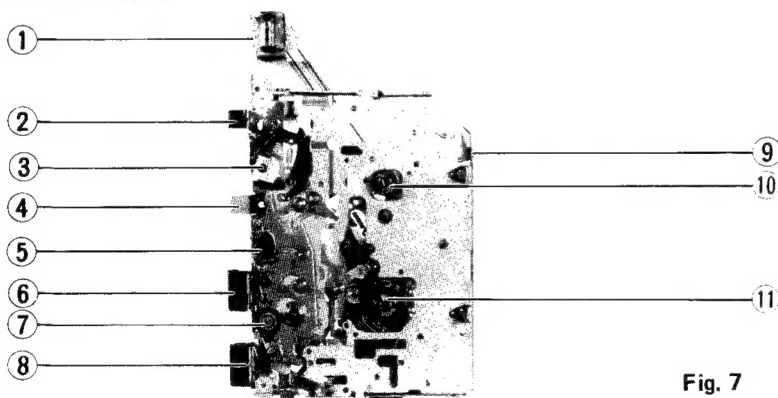


Fig. 7

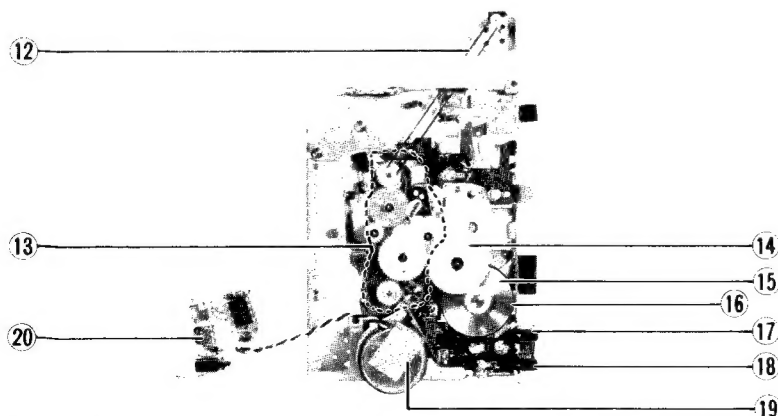
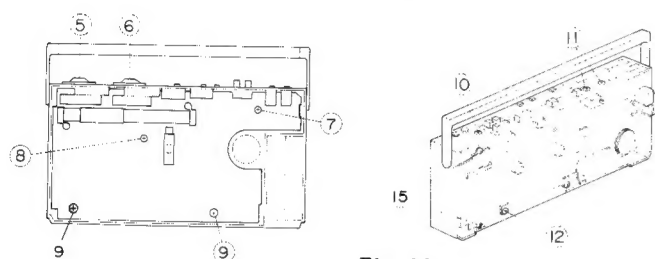
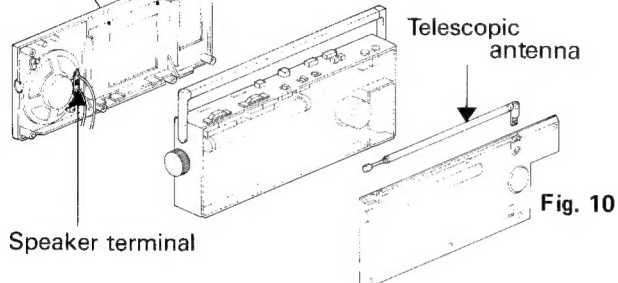
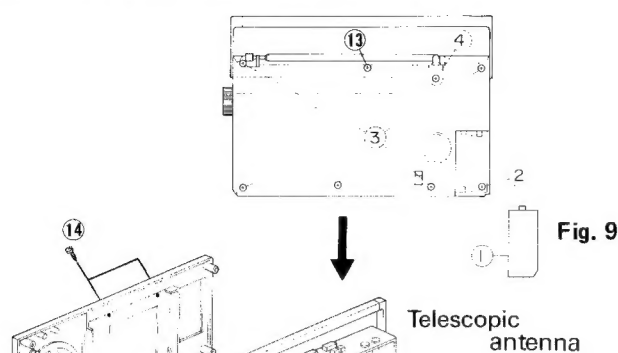


Fig. 8

1. Counter assembly
2. Eject button
3. Magnetic erase head
4. REC button
5. R/P head
6. PLAY button
7. Pinch roller arm assembly
8. STOP button
9. REC safety lever
10. Supply reel disk
11. Take-up reel disk
12. Counter belt
13. Reel disk bracket assembly
14. Sub gear
15. Flywheel assembly
16. Main belt
17. REW button
18. FF button
19. DC motor
20. Governor motor control C. board

## Removal of the Main Parts



### 1. Rear and Front cabinets

- 1) Remove the battery cover from the Rear cabinet.
- 2) Remove 7 screws (2), (3) and (13).  
 (2): SPSF2612R (13): SPSP 2605R  
 (3): SPSF2625R
- 3) Push the EJECT button to open the cassette door and remove 2 screws (14).
- 4) To pull out the rod antenna from the rear cabinet, remove a screw (4) (SPSP2606R).
- 5) Unsolder the speaker terminal.

### 2. Dial back

- 1) Remove 2 screws (15) (SBSF2005Z).

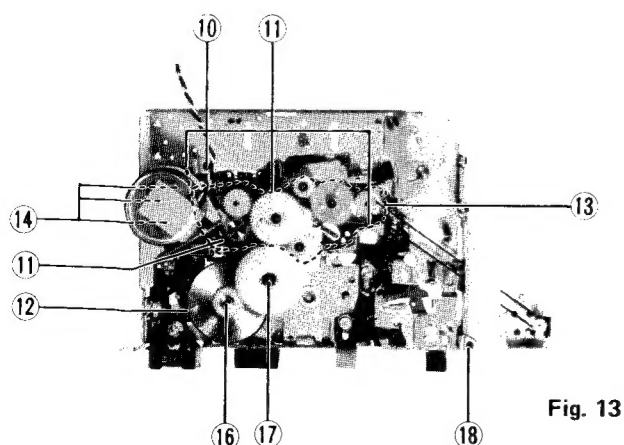
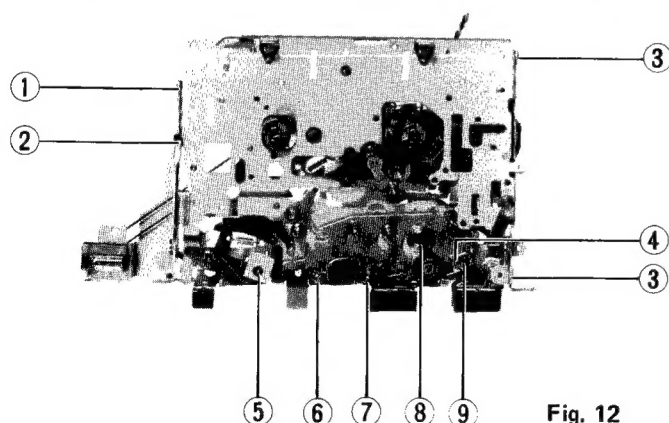
### 3. Amplifier P.W. board assembly

- 1) Remove 2 switch knobs (5) and (6) (Band selector switches).
- 2) To remove the Amp. P.W. board assembly, remove 4 screws (7), (8), (9) and the dial cord, or see fig 3.  
 (7) SPSH1730M  
 (8) VKZ4013-001  
 (9) SBSF2606Z

### 4. Cassette mechanism assembly

- 1) Remove 2 screws (7) and (8) (for fastening the Mecha. assembly and the Amp. P.W. board), 3 screws (10), (11) and (12).  
 (10) SPSH1740N  
 (11) SPSH1740N  
 (12) SBSF2608Z

## Removal of Cassette Mechanism parts



### 1. Pinch roller assembly

- Remove an E-ring (9) holding the assembly. Pull it off from the shaft.

### 2. R/P head

- 1) Unsolder wiring connected to the head, then remove a screw (7) and loosening a screw (6).

### 3. Erase head

- Remove a screw (5).

### 4. Motor assembly

- Remove 3 screws (3), (10) to the motor bracket, then remove 3 screws (14).

### 5. Reel disk bracket assembly (13)

- Remove 4 screws (11).

### 6. Sub gear

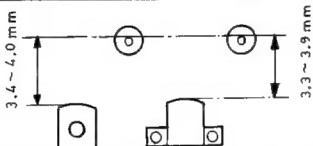
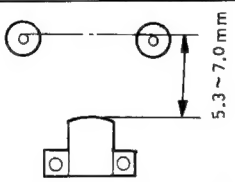
- Remove a special washer (17).

### 7. Flywheel assembly

- Remove an E-ring (8) and pull out the flywheel.

## Adjustment of Cassette Mechanism

When cassette mechanism parts are replaced, be sure to check the following items.

| Items                                 | Rating   | Test Method   | Test Used   |
|---------------------------------------|--|---|---|
| 1. Power supply voltage               | Rated voltage: DC 4.5 V<br>Motor operating voltage range:<br>2.3–4.5 V   | Constant supply voltage   | —   |
| 2. Tape speed                         | 4.8 cm/sec. +3 %<br>(3000 Hz) –2 %<br>Variation range –2 %   | Frequency counter<br>(Digital counter)  | VTT-656   |
| 3. Wow & flutter                      | 0.28 % or less (JIS WRMS)  | Wow meter   | VTT-656   |
| 4. Torque of the take-up reel         | PLAY: 28–70 g.cm<br>FF: 50–100 g.cm<br>REW: 50–100 g.cm  |   | —   |
| 5. Current consumption (Motor only)   | PLAY: 160 mA or less<br>FF: 250 mA or less<br>REW: 250 mA or less  | DC ammeter  | C-60<br>Use one with no irregularities in take-up torque. |
| 6. Clamping force of the pinch roller | 200–280 g  | To be measured when the pinch roller stops rotating after being pulled in the horizontal direction with the tension gauge.  |   |
| 7. Thrust wobble of the flywheel      | 0.05–0.2 mm  | Clearance gauge   | —   |
| 8. Head adjustment for PLAY           |    | In the PLAY mode, the clearance should be within the value shown on the left. Also be sure neither corner of the head comes into contact with the cassette shell. | Any type of cassette tapes                                |
| 9. Head adjustment for CUE/REVIEW     |   |   |   |
| 10. Auto stop operation               | At a reduced voltage of 2.3 V, the unit should auto-stop within 10 sec. after winding is finished in PLAY, FF and REW modes. |   | Any type of cassette tape                                 |
| 11. Fast rewinding time               | FF: 110 sec. or less<br>REW: 110 sec. or less  |   | C-60  |

## Adjustment of Cassette Amplifier

(Conditions)

Power source : DC 4.5 V

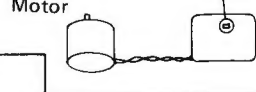
Output : Speaker terminal 8  $\Omega$  load

Volume level : MAX.

Installation : Horizontal

Tape : Norm

TONE : High


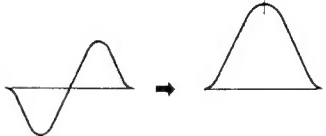
| Items  | Test Tape           | Alignment Methods   | Alignment Point   |
|--|---------------------|---|---|
| 1. Head azimuth  | VTT-657<br>(8 kHz)  | Adjust so that the output phase difference between L and R channels is minimum and that output is maximum.                | Screw for playback head azimuth adjustment (fastening the head)   |
| 2. Tape speed adjustment and checking of wow & flutter | VTT-656<br>(3 kHz)  | Adjust so that the electronic counter reads within 3,015 Hz $\pm$ 15 Hz.<br>Wow & flutter should be 0.28% (WRMS) or less. | Semi-fixed resistor on the Governor C.B. VR501<br> |
| 3. Checking of P.B. maximum output                     | VTT-662<br>(333 Hz) | Connect an electronic voltmeter to the speaker terminals so that the electronic voltmeter reads more than 2.8 V.          |   |
| 4. Bias frequency adjustment                           |                     | Connect a frequency counter to transistor Q302(B).<br>Adjust so that the electronic counter reads 48 kHz.                 | T301 on the P.W.B.  |



# Tuner Alignment

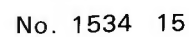
## BASIC CONDITIONS

Power source of the receiver : DC 4.5 V, EXT. Jack 6 V  
 Load resistance of the receiver : 50 mW 0.63 V/8  $\Omega$   
 Modulation of SSG : 400 Hz, 30 %

| Item   | Description   |
|--|---|
| <b>1. AM IF Alignment</b><br>1-1 Conditions of the receiver<br>(1) Power source:<br><br>(2) Function switch position:<br>(3) Band select switch:<br>(4) Volume control:<br>(5) Variable capacitor:<br>1-2 Connection of Sweeper and the receiver<br>(1) Tuner input:<br>(2) Tuner output:<br>1-3 Aligning position:<br>1-4 Alignment (Waveform):    | DC 4.5 V (When the power is supplied directly to the tuner in the receiver, the voltage should be adjusted to the proper level which shall be required by the tuner.)<br><br>RADIO<br>AM<br>Minimum gain position<br>Near the minimum capacity position where no signal comes in.<br><br>Positive side to TP-1<br>Positive side to TP-2, Negative side to TP-4<br>T3, T4<br>Adjust AM I.F.T. (above mentioned aligning position) so that maximum and symmetrical waveform can be obtained.<br>In this case, the wavehead should be appeared at the center marker (455 kHz) on the scope of Sweeper.   |
| <b>2. FM IF Alignment</b><br>2-1 Conditions of the receiver<br>(1) Power source:<br>(2) Function switch position:<br>(3) Band select switch:<br>(4) Volume control:<br>(5) Variable capacitor:<br>2-2 Connection of Sweeper and the receiver<br>(1) Tuner input:<br>(2) Tuner output:<br><b>Note:</b> a) Attach a capacitor (30 pF) and a resistor (30 k $\Omega$ ) in series to the positive side cable which shall be led from Sweeper input.<br>b) Attach a capacitor (30 pF) and a resistor (100 k $\Omega$ ) in series to the positive side cable which shall be led from Sweeper output.<br>2-3 Aligning position:<br><br>2-4 Alignment (Waveform):<br>a) IF Waveform:<br><br>b) Discriminator Waveform: | Same as mentioned in item 1-1<br>RADIO<br>FM<br>Minimum gain position<br>Near the minimum capacity position where no signal comes in.<br><br>Positive side to TP-5<br>Positive side to TP-2, Negative side to TP-4<br><br>a) IF Waveform: T1<br>b) Discriminate Waveform: T2<br>("S" curve waveform)<br>Adjust the discriminate coil (T2) so that "S" curve waveform may be changed to IF waveform as shown in the figure (right).<br><br>After the above, adjust T1 so that max. sensitivity and symmetrical IF waveform can be obtained on the scope of Sweeper.<br>Adjust the discriminate T2 again so that the above symmetrical IF waveform may be changed to balanced "S" curve waveform.  |
| <b>3. AM RF Alignment</b><br>3-1 Conditions of the receiver<br>(1) Power source:<br>(2) Function switch position:<br>(3) Volume control:<br>(4) Tone control:<br>(5) Variable capacitor:<br>3-2 Conditions of SSG<br>(1) Modulation:<br>(2) Frequency:<br>(3) Output level of the attenuator in SSG:<br>3-3 Power output measuring position:   | Same as mentioned in item 1-1<br>RADIO<br>50 mW<br>High<br>Refer to the following list shown in item 3-4.<br><br>Refer to the basic condition.<br>Refer to the following list shown in item 3-4.<br>Approx. 50 mW<br>Speaker terminals  |

| 3-4 Alignment:   |                             |                                       |  |                             |                   |         |
|--|-----------------------------|---------------------------------------|--|-----------------------------|-------------------|---------|
|  | Band Select Switch Position | Sort of Antenna to be attached to SSG | Frequency of SSG   | Variable Capacitor Position | Aligning Position |         |
|  |                             |                                       |  |                             | C/W/JW/WH         | L/LB/LD |
| 1  | AM                          | Loop Antenna                          | 520 kHz  | Max. capacity               | L13               | L13     |
| 2  |                             |                                       | 1,650 kHz  | Min. capacity               | TC-5              | TC-5    |
| 3  |                             |                                       | Adjust the above aligning position (L13 & TC-5) repeatedly so that the tuner can be received above frequency range (bandwidth).      |                             |                   |         |
| 4  |                             |                                       | 620 kHz  | to be received 620 kHz      | L5                | L5      |
| 5  |                             |                                       | 1,400 kHz  | to be received 1,400 kHz    | TC-3              | TC-3    |
| 6  |                             |                                       | Adjust the above aligning position (L5 & TC-3) repeatedly so that the tuner can be obtained the best sensitivity.                    |                             |                   |         |
| 7  | LW                          | Loop Antenna                          | 145 kHz  | Max. capacity               | —                 | L14     |
| 8  |                             |                                       | 360 kHz  | Min. capacity               | —                 | TC-12   |
| 9  |                             |                                       | Adjust the above aligning position (L14 & TC-12) repeatedly so that the tuner can be received above frequency range (bandwidth).     |                             |                   |         |
| 10   |                             |                                       | 160 kHz  | to be received 160 kHz      | —                 | L21     |
| 11   |                             |                                       | 350 kHz  | to be received 350 kHz      | —                 | TC-4    |
| 12   |                             |                                       | Adjust the above aligning position (L21 & TC-4) repeatedly so that the tuner can be obtained the best sensitivity.                   |                             |                   |         |
| <b>Note:</b> Adjust shortwave using a digital S.S.G. so that its adjusting frequency is within $\pm 10$ kHz. |                             |                                       |  |                             |                   |         |
| 1  | SW1                         | Dummy Antenna                         | 5.93 MHz   | Max. capacity               | L15               | L15     |
| 2  |                             |                                       | 6.3 MHz  | Min. capacity               | TC-6              | TC-6    |
| 3  |                             |                                       | Adjust the above aligning position (L15 & TC-6) repeatedly so that the tuner can be received above frequency range (bandwidth).      |                             |                   |         |
| 4  |                             |                                       | 6.15 MHz   | to be received 6.15 MHz     | L7                | L7      |
| 5  | SW2                         | Dummy Antenna                         | 7.08 MHz   | Max. capacity               | L16               | L16     |
| 6  |                             |                                       | 7.45 MHz   | Min. capacity               | TC-7              | TC-7    |
| 7  |                             |                                       | Adjust the above aligning position (L16 & TC-7) repeatedly so that the tuner can be received above frequency range (bandwidth).      |                             |                   |         |
| 8  |                             |                                       | 7.25 MHz   | to be received 7.25 MHz     | L8                | L8      |
| 9  | SW3                         | Dummy Antenna                         | 9.48 MHz   | Max. capacity               | L17               | L17     |
| 10   |                             |                                       | 9.9 MHz  | Min. capacity               | TC-8              | TC-8    |
| 11   |                             |                                       | Adjust the above aligning position (L17 & TC-8) repeatedly so that the tuner can be received above frequency range (bandwidth).      |                             |                   |         |
| 12   |                             |                                       | 9.65 MHz   | to be received 9.65 MHz     | L9                | L9      |
| 13   | SW4                         | Dummy Antenna                         | 11.68 MHz  | Max. capacity               | L14               | L18     |
| 14   |                             |                                       | 12.1 MHz   | Min. capacity               | TC-9              | TC-9    |
| 15   |                             |                                       | Adjust the above aligning position (L14, L18 & TC-9) repeatedly so that the tuner can be received above frequency range (bandwidth). |                             |                   |         |
| 16   |                             |                                       | 11.85 MHz  | to be received 11.85 MHz    | L10               | L10     |
| 17   | SW5                         | Dummy Antenna                         | 15.08 MHz  | Max. capacity               | L19               | L19     |
| 18   |                             |                                       | 15.6 MHz   | Min. capacity               | TC-10             | TC-10   |
| 19   |                             |                                       | Adjust the above aligning position (L19 & TC-10) repeatedly so that the tuner can be received above frequency range (bandwidth).     |                             |                   |         |
| 20   |                             |                                       | 15.3 MHz   | to be received 15.3 MHz     | L11               | L11     |
| 21   | SW6                         | Dummy Antenna                         | 17.68 MHz  | Max. capacity               | L20               | L20     |
| 22   |                             |                                       | 18.0 MHz   | Min. capacity               | TC-11             | TC-11   |
| 23   |                             |                                       | Adjust the above aligning position (L20 & TC-11) repeatedly so that the tuner can be received above frequency range (bandwidth).     |                             |                   |         |
| 24   |                             |                                       | 17.8 MHz   | to be received 17.8 MHz     | L12               | L12     |





# Main Amp. P.W. Board Parts List

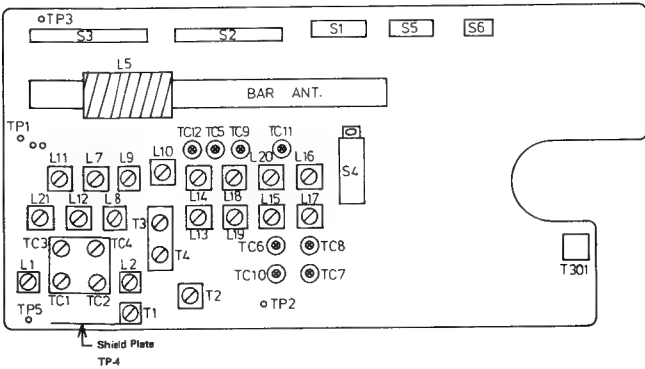
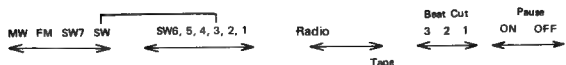
| Ref. No.                           | Parts No.   | Parts Name                        | Remarks                     |
|------------------------------------|-------------|-----------------------------------|-----------------------------|
| 34                                 | —           | Main P.W. Board (Tuner) (See P20) |                             |
| VC1,2,3,4                          | QAP1224-703 | V. Capacitor                      |                             |
| TC1,2,3,4,<br>5,6,7,8,<br>10,11,12 | QAT3001-053 | T. Capacitor                      |                             |
| S4-1...4-6                         | QSS6201-208 | S. Switch                         |                             |
| S3-1...3-6                         | QSS6401-051 | "                                 |                             |
| S2-1...2-4                         | QSS4601-001 | "                                 |                             |
| S1-1...1-4                         | QSS4201-074 | "                                 |                             |
| S5-1                               | QSS2301-402 | "                                 |                             |
| S6-1                               | QSS1201-024 | "                                 |                             |
| VYTA480-002                        |             | Spacer                            |                             |
| S7-1...7-4                         | QSS4201-021 | S. Switch                         |                             |
| L1                                 | V03105-030  | RF Coil                           | (FM)                        |
| L2                                 | V03105-029  | Osc. Coil                         | (FM)                        |
| L4                                 | V03047-21   | Inductor                          | RC-S22L(BS)/L(ES)/<br>LB(B) |
| L5                                 | VQB012M-301 | Ferrite Core Ant.                 | RC-S22U(B)                  |
| "                                  | VQB012B-312 | "                                 | RC-S22L(BS)/L(ES)/<br>LD(B) |
| L7                                 | VQR7012-608 | SW Antenna Coil                   |                             |
| L8                                 | " -609      | "                                 |                             |
| L9                                 | " -603      | "                                 |                             |
| L10                                | " -604      | "                                 |                             |
| L11                                | " -605      | "                                 |                             |
| L12                                | " -606      | "                                 |                             |
| L13                                | VQM7U01-301 | Osc. Coil                         |                             |
| L14                                | VQS7U01-302 | "                                 | RC-S22W(B)                  |
| "                                  | VQS7T12-304 | Antenna Coil                      | RC-L(BS)/L(ES)/CD(B)        |
| L15                                | " -301      | "                                 |                             |
| L16                                | " -302      | "                                 |                             |
| L17                                | VQS7T10-301 | "                                 |                             |
| L18                                | VQS7T12-304 | "                                 | RC-S22W(B)                  |
| "                                  | VQL7T19-301 | "                                 | RC-S22L(BS)/L(ES)/<br>LD(B) |
| L19                                | VQS7T12-305 | "                                 |                             |
| L20                                | VQS7T12-306 | "                                 |                             |
| L21                                | VQB012B-312 | Ferrite Core Ant.                 | RC-S22L(BS)/L(ES)           |
| "                                  | VQR7012-607 | "                                 | RC-S22W(B)                  |
| T1, 2                              | VQT7F12-104 | I.F.T.                            |                             |
| T3,4, CF2                          | VQT7A32-101 | "                                 |                             |
| T301                               | VQH7001-001 | Bias Osc. Coil                    |                             |
| BP, F1                             | VBP4M3B-001 | B.P. Filter                       |                             |
| CF1                                | VCF2F3B-303 | C. Filter                         |                             |
| J101                               | QMS3501-017 | Mic. Jack                         |                             |
| J102                               | " -017      | E.P. Jack                         |                             |
| IC1                                | AN7216      | I.C.                              |                             |
| IC2                                | AN7221      | "                                 |                             |
| IC3                                | TK10530F    | "                                 |                             |
| IC4, 5                             | TA7331P     | "                                 |                             |
| Q1                                 | 2SC930(E)   | Transistor                        |                             |
| Q2, 302                            | 2SC536(E,F) | "                                 |                             |
| Q301                               | 2SA684(R,S) | "                                 |                             |
| Q3                                 | 2SC930(F)   | "                                 | RC-S22L(BS)/L(ES)/<br>LD(B) |
| D1                                 | MA345       | Varicap                           | RC-S22L(BS)/L(ES)/<br>W(B)  |
| D2                                 | KB369       | Z. Diode                          |                             |
| D4                                 | MA165       | Si. Diode                         | RC-S22L(BS)/L(ES)/<br>LD(B) |
| D3, 101                            | MA165       | "                                 |                             |
| D301                               | MA165       | "                                 |                             |
| D302                               | HZ3C2       | Z. Diode                          |                             |
| C1                                 | QCF81HZ-103 | C. Capacitor                      |                             |
| C2                                 | QCY81EK-473 | "                                 |                             |

| Ref. No. | Parts No.   | Parts Name     | Remarks                     |
|----------|-------------|----------------|-----------------------------|
| C3       | QCS81HK-220 | C. Capacitor   |                             |
| C5       | QCC11EM-103 | "              |                             |
| C6       | QCT05CH-5R0 | "              | RC-S22L(BS)/L(ES)           |
| C7       | QCT05TH-240 | "              | RC-S22LD(B)                 |
| "        | QCT05TH-180 | "              | RC-S22L(BS)/L(ES)           |
| C8       | QCT05CH-5R0 | "              |                             |
| C9       | QCT05CH-150 | "              |                             |
| C10      | QCY81EK-473 | "              |                             |
| C11      | QCF81HZ-103 | "              |                             |
| C13      | QCC11EM-223 | "              |                             |
| C14      | QCY81HK-152 | "              |                             |
| C15      | QCY81EK-223 | "              |                             |
| C16      | QCF81HZ-473 | "              |                             |
| C17      | QCS81HK-470 | "              |                             |
| C18      | QEK40JM-336 | E. Capacitor   |                             |
| C19      | QEK41CM-106 | "              |                             |
| C20      | QCF81HZ-223 | C. Capacitor   |                             |
| C21      | QCY81EK-473 | "              |                             |
| C22      | QEK HM-104  | E. Capacitor   |                             |
| C23      | QEU40JM-477 | "              |                             |
| C24      | QCC11EM-473 | C. Capacitor   | RC-S22LD(B)/W(B)            |
| "        | QCC11EM-223 | "              | RC-S22L(BS)/LES             |
| C25      | QCY81EK-333 | "              |                             |
| C26      | QCS11HJ-150 | "              |                             |
| "        | QCS81HK-220 | "              | RC-S22W(B)                  |
| C28      | QCY81EK-333 | "              |                             |
| C29      | QCS11HJ-2R0 | "              |                             |
| C30      | QCS81HK-2R0 | "              |                             |
| C31, 33  | QCS11HJ-4R0 | "              |                             |
| C34      | QCS11HJ-390 | "              |                             |
| C35      | QCF81HZ-103 | "              |                             |
| C36      | QCS81HK-150 | "              |                             |
| C37      | QCT05TM-180 | "              | RC-S22W(B)                  |
| "        | QCS11HJ-390 | "              | RC-S22L(BS)/L(ES)/<br>LD(B) |
| C38      | QCS81HK-361 | "              |                             |
| C39      | QCT05CH-7R0 | "              | RC-S22W(B)                  |
| "        | QFS21HJ-181 | P.P. Capacitor | RC-S22L(BS)/L(ES)/<br>LD(B) |
| C40      | QCT05CH-100 | C. Capacitor   |                             |
| C41      | QCT05YL-5R0 | "              |                             |
| C42      | " -4R0      | "              |                             |
| C43      | QCT05UJ-220 | "              |                             |
| C44      | QCT05YL-2R0 | "              |                             |
| C46      | QCT05WK-8R0 | "              |                             |
| C47      | QEK41HM-105 | E. Capacitor   |                             |
| C48      | QCT05CH-5R0 | C. Capacitor   | RC-S22W(B)                  |
| C49      | QEK41HM-104 | "              | RC-S22L(BS)/L(ES)           |
| C50      | " -105      | "              |                             |
| C51      | QCT05CH-2R0 | "              |                             |
| C52      | QCT05YL-3R0 | "              |                             |
| C53      | QCS11HJ-151 | "              | RC-S22W(B)                  |
| C54      | QCY81EK-473 | "              | RC-S22W(B)                  |
| "        | " -223      | "              | RC-S22L(BS)/L(ES)/<br>LD(B) |
| C55      | QCS81HK-101 | "              | RC-S22W(B)                  |
| "        | " 470       | "              | RC-S22L(BS)/L(ES)/<br>LD(B) |
| C56      | QEE40JM-106 | T.E. Capacitor |                             |
| C57      | QCS81HK-470 | C. Capacitor   | RC-S22W(B)                  |
| "        | QCS11HJ-5R0 | "              | RC-S22L(BS)/L(ES)/<br>LD(B) |
| C58      | QCT05CH-240 | "              |                             |
| C59      | " -4R0      | "              | RC-S22W(B)                  |

| Item  |                             |   | Description  |                             |                   |         |
|---|-----------------------------|---|--|-----------------------------|-------------------|---------|
| 25  | SW7                         | Dummy Antenna                           | 21.43 MHz  | Max. capacity               | L18               | —       |
| 26  |                             |   | 21.9 MHz   | Min. capacity               | TC-12             | —       |
| 27  |                             |   | Adjust the above aligning position (L14 & TC-12) repeatedly so that the tuner can be received above frequency range (bandwidth).   |                             |                   |         |
| 28  |                             |   | 21.6 MHz   | to be received 21.6 MHz     | L21               | —       |
| 4. FM RF Alignment                            |                             |   |  |                             |                   |         |
| 4-1 Conditions of the receiver                |                             |   | Same as mentioned in item 1-1<br>RADIO<br>FM<br>50 mW<br>HIGH position<br>Refer to the following list shown in item 4-3.   |                             |                   |         |
| (1) Power source:                             |                             |   |  |                             |                   |         |
| (2) Function switch position:                 |                             |   |  |                             |                   |         |
| (3) Band select switch:                       |                             |   |  |                             |                   |         |
| (4) Volume control:                           |                             |   |  |                             |                   |         |
| (5) Tone control:                             |                             |   |  |                             |                   |         |
| (6) Variable capacitor:                       |                             |   |  |                             |                   |         |
| 4-2 Condition of FM SSG                       |                             |   | Refer to the basic conditions.<br>Refer to the following list shown in item 4-3.<br>The level shall be decided by the load resistance of the receiver mentioned in the basic conditions. |                             |                   |         |
| (1) Modulation:                               |                             |   |  |                             |                   |         |
| (2) Frequency:                                |                             |   |  |                             |                   |         |
| (3) Output level of the attenuator in FM SSG: |                             |   |  |                             |                   |         |
| 4-3 Alignment:                                |                             |   |  |                             |                   |         |
|   | Band Select Switch Position | Sort of Antenna to be attached to SSG   | Frequency of FM SSG  | Variable Capacitor Position | Aligning Position |         |
|   |                             |   |  |                             | C/W/JW/WH         | L/LB/LD |
| 1   | FM                          | Dummy Antenna (75 Ω unbalanced antenna) | 87.5 MHz   | Max. capacity               | L2                | L2      |
| 2   |                             |   | 109.0 MHz  | Min. capacity               | TC-2              | TC-2    |
| 3   |                             |   | Adjust the above aligning position (L2 & TC-2) repeatedly so that the tuner can be received above frequency range (bandwidth).   |                             |                   |         |
| 4   |                             |   | 90 MHz   | to be received 90 MHz       | L1                | L1      |
| 5   |                             |   | 106 MHz  | to be received 106 MHz      | TC-1              | TC-1    |
| 6   |                             |   | Adjust the above aligning position (L1 & TC-1) repeatedly so that the tuner can be obtained the best sensitivity.  |                             |                   |         |

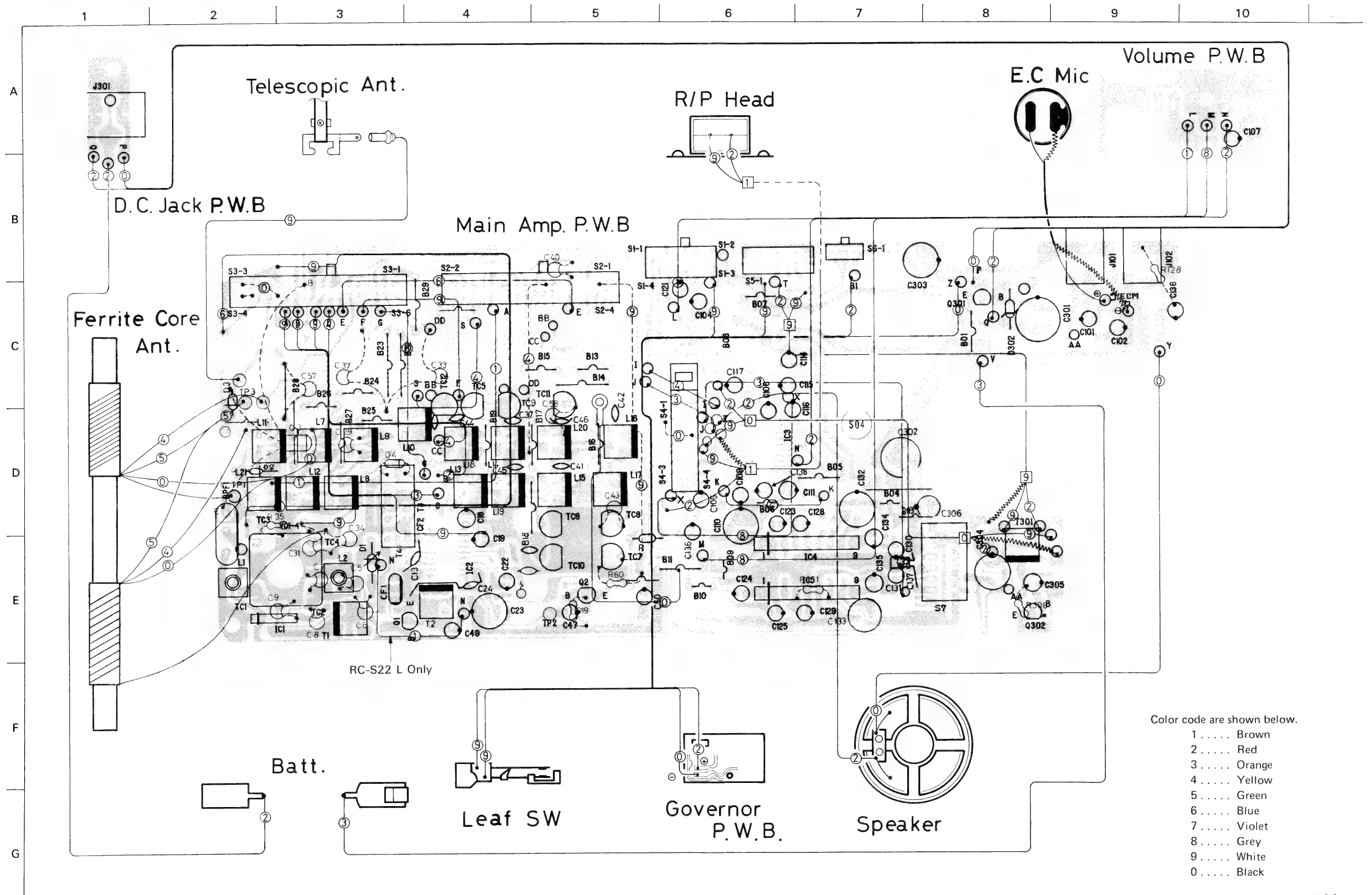
Parts Arrangement for Alignment

C/W/JW/WH





# Wiring Connection of RC-S22 L/LB/LD



Blue line shows the signal at FM.  
Red line shows the signal at AM.  
+B circuits.  
Parts are safety assurance parts.  
When replacing those parts, make sure to use the specified one.

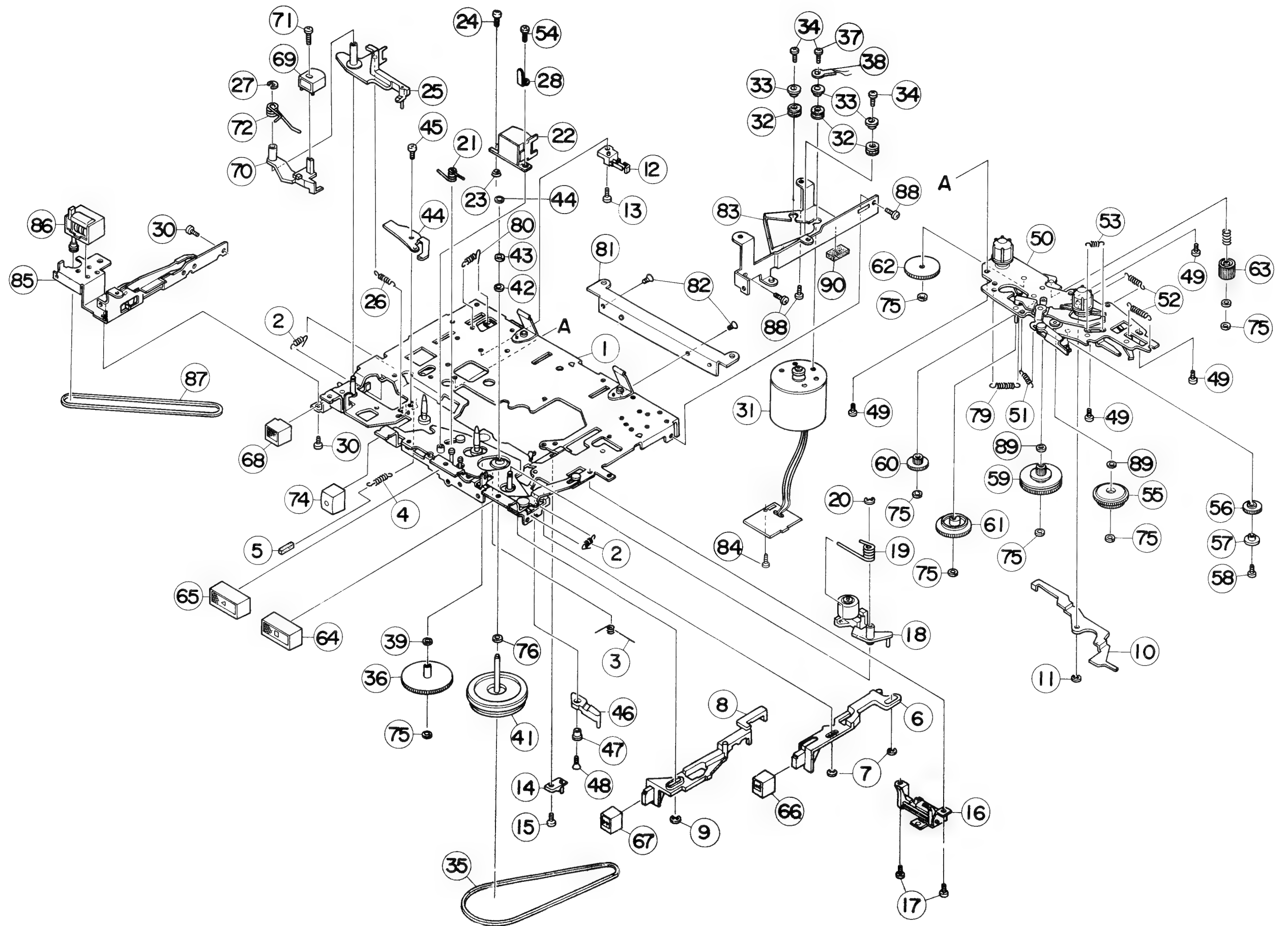
\* VOLTAGES OF SEMICONDUCTOR (V)

|     | PIN | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| IC1 | FM  | 21 | 28 | 28 | 28 | 0  | 28 | 28 | 22 |    |    |    |    |    |    |    |    |    |    |    |    |
| AM  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |    |    |    |    |    |    |    |    |    |    |    |    |
| IC2 | FM  | 0  | 03 | 03 | 23 | 21 | 23 | 23 | 0  | 23 | 22 | 28 | 0  | 17 | 05 | 05 | 0  | 02 | 03 |    |    |
| AM  | 2   | 52 | 25 | 23 | 23 | 23 | 0  | 28 | 24 | 28 | 21 | 17 | 04 | 04 | 0  | 25 | 07 |    |    |    |    |
| IC3 | FM  | 02 | 06 | 0  | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| AM  | 21  | 0  | 21 | 14 | 0  | 22 | 44 | 21 |    |    |    |    |    |    |    |    |    |    |    |    |    |

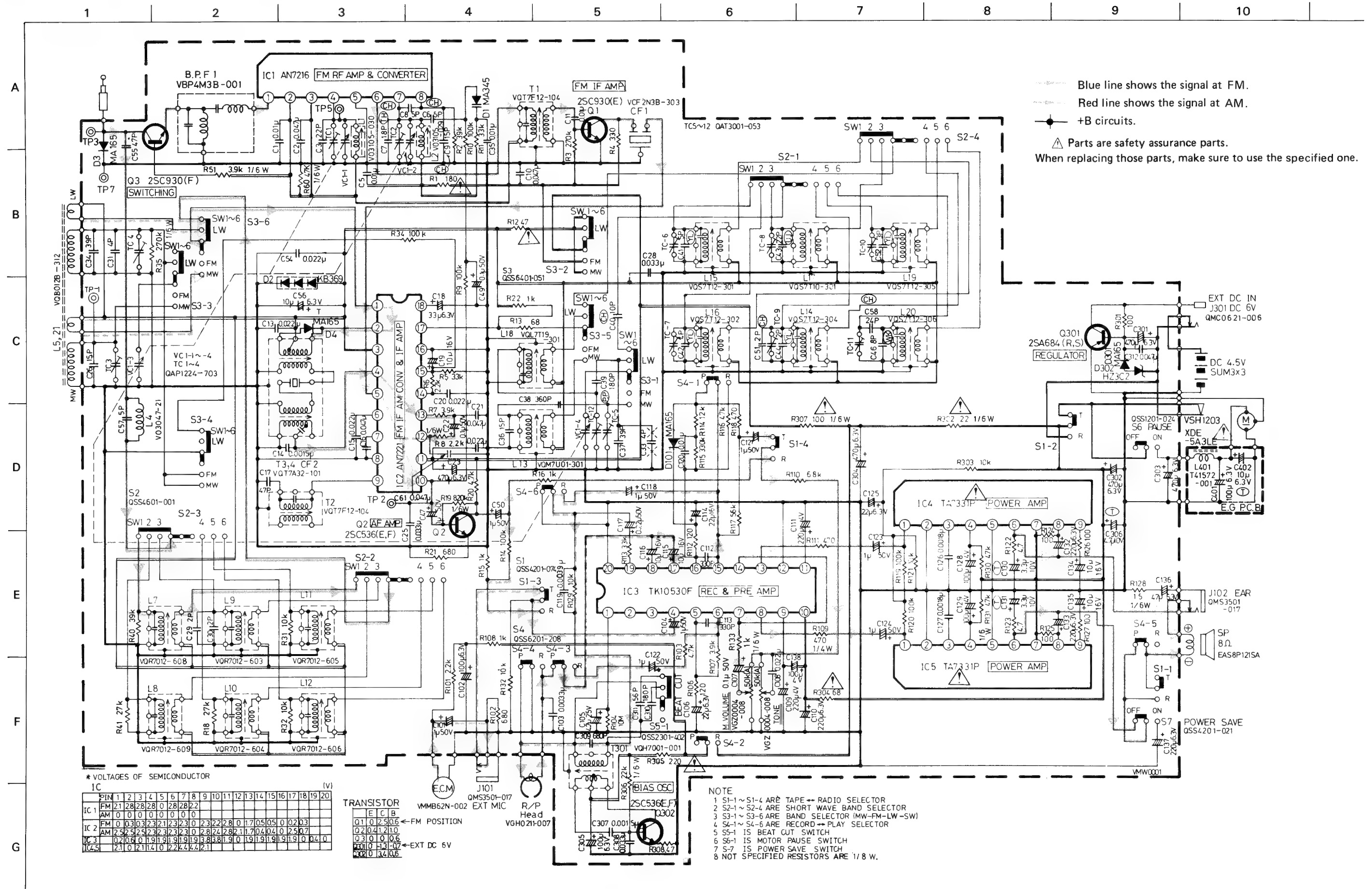
NOTE  
1 S1-1 ~ S1-4 ARE TAPE ↔ RADIO SELECTOR  
2 S2-1 ~ S2-4 ARE SHORT WAVE BAND SELECTOR  
3 S3-1 ~ S3-6 ARE BAND SELECTOR (MW-FM-SW7-SW)  
4 S4-1 ~ S4-6 ARE RECORD ↔ PLAY SELECTOR  
5 S5-1 IS BEAT CUT SWITCH  
6 S6-1 IS MOTOR PAUSE SWITCH  
7 S-7 IS POWER SAVE SWITCH



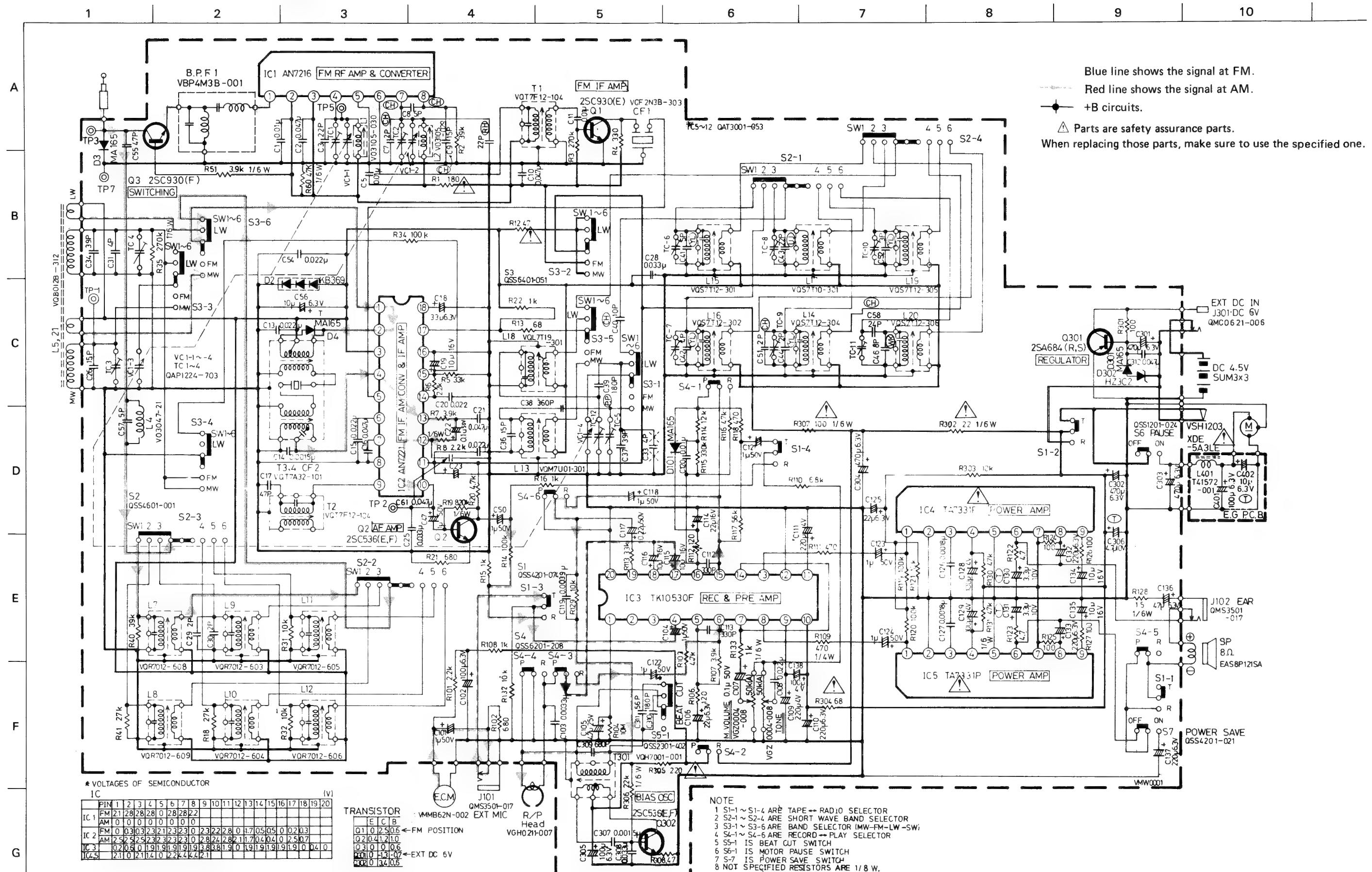




## Standard Schematic Diagram of RC-S22 L/LB

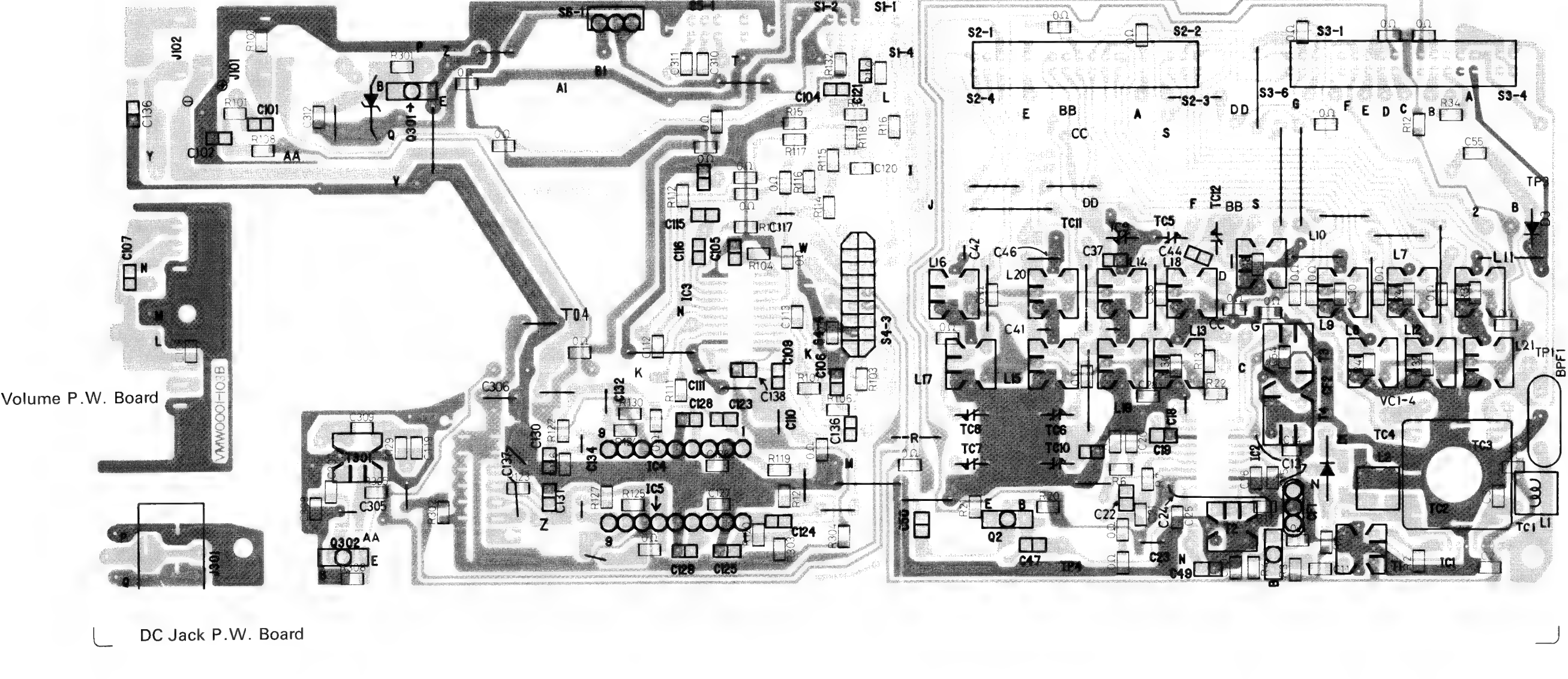


## Standard Schematic Diagram of RC-S22 LD





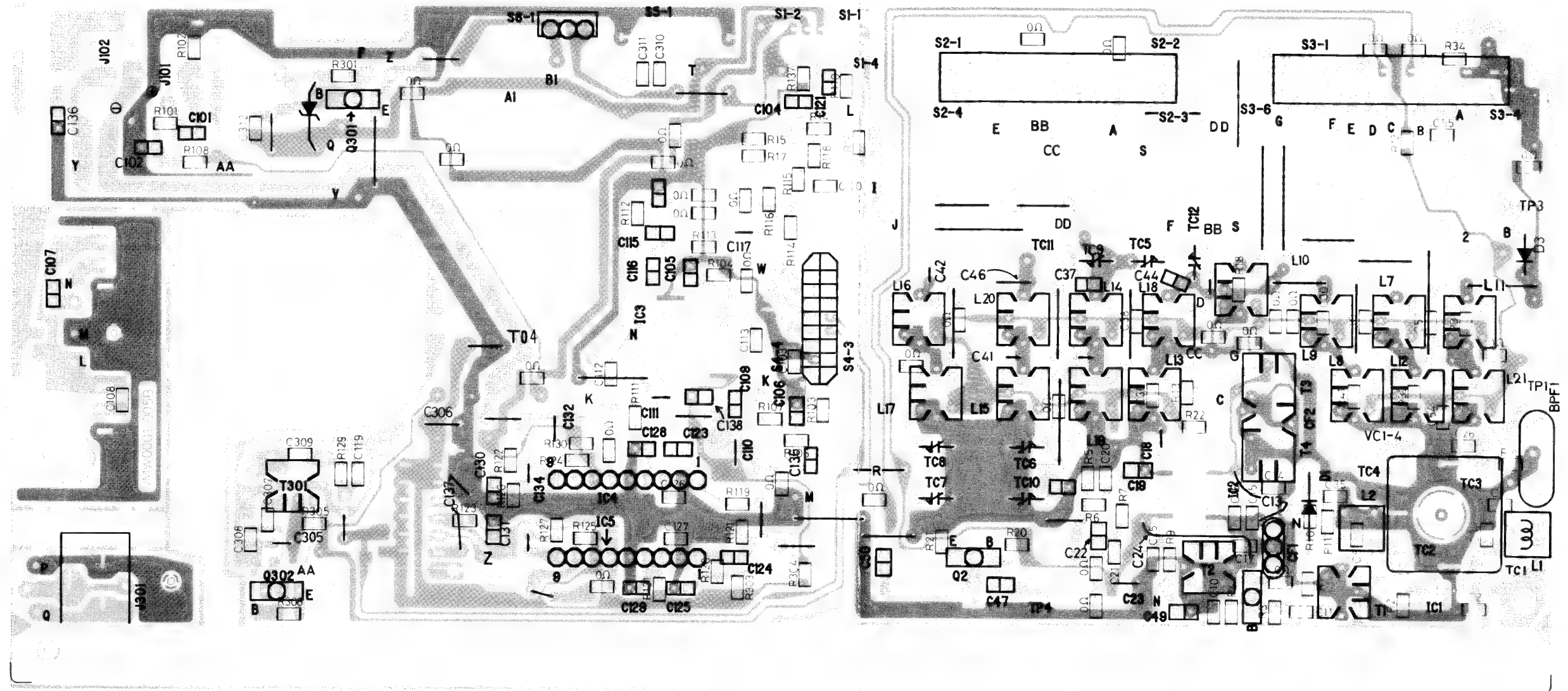
Main Amp. P.W. Board Parts of RC-S22 L/LB/LD



Volt

|      |             | E   | C   | B   |
|------|-------------|-----|-----|-----|
| Q1   | 2SC930(E)   | 0   | 0   | 0   |
| Q2   | 2SC536(E,F) | 0.4 | 1.2 | 1.0 |
| Q301 | 2SA684(R,S) | 0   | 4.1 | 4.0 |
| Q302 | 2SC536(E,F) | 0   | 0.1 | 0.1 |

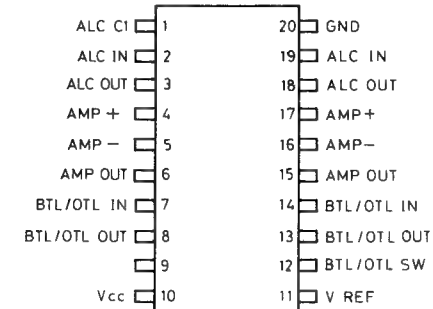
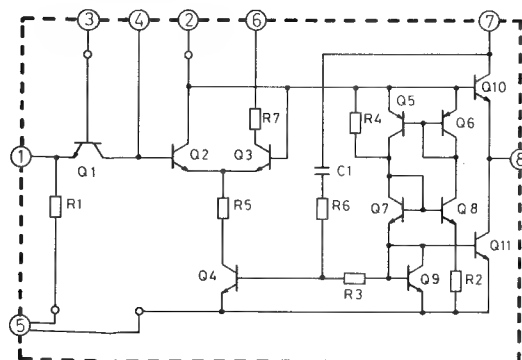
|               |    | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20 |
|---------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| IC1,AN7216    | FM | 2.1 | 2.8 | 2.8 | 2.8 | 0   | 2.8 | 2.8 | 2.2 |     |     |     |     |     |     |     |     |     |     |     |    |
|               | AM | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |     |     |     |     |     |     |     |     |     |     |    |
| IC2,AN7221    | FM | 0   | 0.3 | 0.3 | 2.3 | 2.1 | 2.3 | 2.3 | 0   | 2.3 | 2.2 | 2.8 | 0   | 1.7 | 0.5 | 0.5 | 0   | 0.2 | 0.3 |     |    |
|               | AM | 2.5 | 2.5 | 2.5 | 2.3 | 2.3 | 2.3 | 2.3 | 0   | 2.8 | 2.4 | 2.8 | 2.1 | 1.7 | 0.4 | 0.4 | 0   | 2.5 | 0.7 |     |    |
| IC3,TK10530   |    | 0.2 | 0.6 | 0   | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 3.8 | 3.8 | 1.9 | 0   | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0   | 0.4 | 0  |
| IC4~5,TA7331P |    | 2.1 | 0   | 2.1 | 1.4 | 0   | 2.2 | 4.4 | 4.4 | 2.1 |     |     |     |     |     |     |     |     |     |     |    |



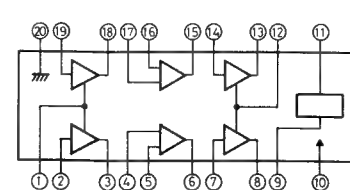
+B  
Earth  
Chip parts

## Integrant Circuit

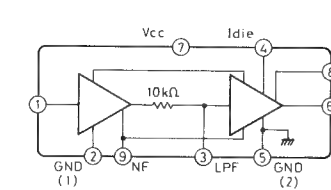
### AN7216



### TK10530



### TA7331P





| Ref. No.  | Parts No.   | Parts Name     | Remarks                                   |
|-----------|-------------|----------------|---|
| C61       | OCS11HJ-4R0 | C. Capacitor   | RC-S22LD(B)/W(B)<br>RC-S22L(BS)/L(ES)     |
| C101      | OCC11EM-473 | "              |   |
| C102      | QEK41HM-105 | E. Capacitor   |   |
| C103      | QEK40JM-107 | "              |   |
| C104      | QCY81HK-332 | C. Capacitor   |   |
| C105      | QEK41HM-105 | E. Capacitor   |   |
| C106      | QEK41EM-475 | "              |   |
| C107      | QEK40JM-226 | "              |   |
| C108      | QEK41HM-104 | "              |   |
| C109      | QCY81EK-223 | C. Capacitor   |   |
| C110      | QEK40GM-227 | E. Capacitor   |   |
| C111      | QEK40JM-227 | "              |   |
| C112      | QCS81HK-331 | C. Capacitor   |   |
| C113      | QCS81HK-331 | "              |   |
| C114      | QEK41CM-226 | E. Capacitor   |   |
| C115      | " -106      | "              |   |
| C116      | " -106      | "              |   |
| C117      | QEK41HM-224 | "              |   |
| C118      | " -105      | "              |   |
| C119      | QCY81HK-472 | C. Capacitor   |   |
| "         | " -392      | "              | RC-S22W(B)<br>RC-S22L(BS)/L(ES)/<br>L(DB) |
| C120      | " -103      | "              |   |
| C121-124  | QEK41HM-105 | E. Capacitor   |   |
| C125      | QEK40JM-226 | "              |   |
| C126-127  | QCY81HK-182 | C. Capacitor   |   |
| C128-129  | QEK40GM-107 | E. Capacitor   |   |
| C130-131  | QEE51AM-335 | T.E. Capacitor |   |
| C132, 133 | QEK40JM-227 | E. Capacitor   |   |
| C134, 135 | QEK41CM-106 | "              |   |
| C136      | QEK40JM-476 | "              |   |
| C137      | " -227      | "              |   |
| C138      | QEK40GM-107 | "              |   |
| C301-303  | QEU40JM-477 | "              |   |
| C304      | QET20JM-477 | "              |   |
| C305      | QEK40JM-107 | "              |   |
| C306      | QEE51AM-475 | T.E. Capacitor |   |
| C307      | QCY81HK-152 | C. Capacitor   | RC-S22W(B)<br>RC-S22L(BS)/L(ES)/<br>LD(B) |
| C308      | QCY81EK-223 | "              |   |
| "         | " -333      | "              |   |
| C309      | QCY81HK-681 | "              |   |
| C310      | QCS81HK-181 | "              |   |
| C311      | " -560      | "              |   |
| C312      | QCY81EK-473 | "              |   |
| R1        | QRS188J-181 | M.G. Resistor  |   |
| R2        | " -393      | "              | RC-S22W(B)<br>RC-S22L(BS)/L(ES)/<br>LD(B) |
| R3        | " -274      | "              |   |
| R4        | " -331      | "              |   |
| R5        | " -473      | "              |   |
| "         | " -333      | "              |   |
| R6        | " -222      | "              |   |
| R7        | " -392      | "              |   |
| R8        | QRD161J-222 | C. Resistor    |   |
| R9        | QRS188J-104 | M.G. Resistor  | RC-S22L(BS)/L(ES)                         |
| R10       | " -104      | "              |   |
| R11       | " -333      | "              |   |
| R12       | " -470      | "              |   |
| R13       | " -680      | "              |   |
| R14       | " -104      | "              |   |
| R15       | " -102      | "              |   |
| R16       | " -102      | "              |   |

| Ref. No. | Parts No.    | Parts Name    | Remarks  |
|----------|--------------|---------------|--|
| R18      | QRS188J-273  | M.G. Resistor | RC-S22W(B)<br>RC-S22L(BS)/L(ES)/<br>LD(B)                      |
| R19      | QRD161J-824  | C. Resistor   |  |
| R20      | QRS188J-332  | M.G. Resistor |  |
| "        | " -472       | "             |  |
| R21      | " -681       | "             |  |
| R22      | " -102       | "             |  |
| R31      | " -103       | "             |  |
| R32      | " -103       | "             |  |
| R33      | QRD161J-102  | C. Resistor   | RC-S22W(B)   |
| R34      | " -104       | "             | RC-S22L(BS)/L(ES)/<br>LD(B)<br>RC-S22W(B)                      |
| "        | " -563       | "             |  |
| R35      | " -274       | "             |  |
| R40      | QRS188J-393  | M.G. Resistor |  |
| R41      | " -273       | "             | RC-S22W(B)<br>RC-S22L(BS)/L(ES)<br>RC-S22L(BS)/L(ES)/<br>LD(B) |
| R42      | " -562       | "             |  |
| "        | " -103       | "             |  |
| R51      | QRD161J-392  | C. Resistor   |  |
| R60      | " -473       | "             | RC-S22L(BS)/L(ES)/<br>LD(B)                                    |
| R101     | QRS188J-222  | M.G. Resistor |  |
| R102     | " -681       | "             |  |
| R103     | " -472       | "             |  |
| R104     | " -106       | "             |  |
| R106     | " -121       | "             |  |
| R107     | " -392       | "             |  |
| R108     | " -102       | "             |  |
| R109     | QRD141J-471S | C. Resistor   |  |
| R110     | QRS188J-682  | M.G. Resistor |  |
| R111     | " -471       | "             |  |
| R112     | " -121       | "             |  |
| R113     | " -333       | "             |  |
| R114     | " -123       | "             |  |
| R115     | " -334       | "             |  |
| R116     | " -472       | "             |  |
| R117     | " -563       | "             |  |
| R118     | " -471       | "             |  |
| R119     | " -104       | "             |  |
| R120     | " -104       | "             |  |
| R121     | " -103       | "             |  |
| R122     | " -4R7       | "             |  |
| R123     | " -4R7       | "             |  |
| R124-127 | " -101       | "             |  |
| R128     | QRD161J-150  | C. Resistor   |  |
| R129     | QRS188J-103  | M.G. Resistor |  |
| R130     | " -473       | "             |  |
| R131     | QRD161J-473  | C. Resistor   |  |
| R132     | QRS188J-103  | M.G. Resistor | RC-S22L(BS)/L(ES)/<br>LD(B)                                    |
| R133     | QRD161J-102  | C. Resistor   |  |
| R301     | QRS188J-101  | M.G. Resistor |  |
| R302     | " -220       | "             |  |
| R303     | " -103       | "             |  |
| R304     | " -680       | "             |  |
| R305     | " -221       | "             |  |
| R306     | QRD161J-223  | C. Resistor   |  |
| R307     | " -101       | "             |  |
| R308     | QRS188J-4R7  | M.G. Resistor |  |
| —        | QRS188J-0R0  | "             |  |
| —        | F00411-01    | Lug           | Q'ty 32  |

## Other P.W. Board

| Ref. No.            | Parts No.   | Parts Name  | Remarks |
|---------------------|-------------|-------------|---------|
| [Volume P.W. Board] |             |             |         |
| VR1, 2              | VGZ0004-008 | V. Resistor |         |
| [Jack P.W. Board]   |             |             |         |
| J301                | QMA0621-006 | DC Jack     |         |


# Enclosure Assembly and Electrical Parts List

| △ | Ref. No. | Parts No.      | Parts Name             | Remarks                               | Q'ty |
|---|----------|----------------|------------------------|---------------------------------------|------|
|   | 1        | VJC1276-001    | Chassis Base           | RC-S22JW(JS)                          | 1    |
|   | "        | " -003         | "                      | RC-S22L(BS)/L(ES)                     | 1    |
|   | "        | " -004         | "                      | RC-S22LD(B)                           | 1    |
|   | "        | " -012         | "                      | RC-S22C/JW(JB)/W(B)/W(BB)             | 1    |
|   | 2-1      | VYH4585-005    | Roller                 |                                       | 7    |
|   | 2-2      | " -004         | "                      |                                       | 1    |
|   | 3-1      | VYH4034-001    | Stud                   |                                       | 1    |
|   | 3-2      | VYH5366-001    | Roller Stud            |                                       | 7    |
|   | 4        | VYH5142-001    | Battery Contact        |                                       | 1    |
|   | 5        | VYH5185-001    | "                      |                                       | 1    |
|   | 6        | VYH5195-001    | "                      |                                       | 1    |
|   | 7        | VYH5196-001    | "                      |                                       | 1    |
|   | 8        | VJD4017-003    | Ribbon                 |                                       | 1    |
|   | 9        | VKY4305-001    | Rec. Spring            |                                       | 1    |
|   | 10       | VJD3368-003    | Inner Lay              |                                       | 1    |
|   | 11       | VYH5186-001    | Door Spring            |                                       | 1    |
|   | 12       | VYH5144-001    | Drum                   |                                       | 1    |
|   | 13       | VKW3002-148    | Tension Spring         |                                       | 1    |
|   | 14       | VHR2ZK9-03AT   | Dial Cord              | 850 mm                                | 1    |
|   | 15       | VJN4075-001    | Pointer                |                                       | 1    |
|   | 16       | VJK4197-003    | Dial Scale             | RC-S22L(EB)/LB(B)/W(B)/JW(JB)/C/W(BB) | 1    |
|   | "        | " -005         | "                      | RC-S22L(ES)/L(BS)/JW(JS)              | 1    |
|   | 17       | VYN5024-001    | Mic. Bushing           |                                       | 1    |
|   | 18       | VYH5145-003    | Slide                  |                                       | 2    |
|   | 19       | VXS4100-001    | Band Knob              |                                       | 2    |
|   | 20       | VYH5189-001    | Knob Spacer            |                                       | 2    |
|   | 21       | VYH3239-003    | Clicker                |                                       | 2    |
|   | 22       | T41615-003     | Ball                   |                                       | 4    |
|   | 23       | VKW3001-095    | Spring                 |                                       | 4    |
|   | 24       | VXS4080-002    | Slide Knob             | PAUSE                                 | 1    |
|   | 25       | VXS4104-001    | "                      | TAPE/RADIO                            | 1    |
|   | 26       | VXS4081-002    | "                      | BEAT CUT                              | 1    |
|   | 27       | VJD4689-001    | Plate                  | for Band                              | 1    |
|   | 28       | VYH4009-011    | Tuning Shaft           |                                       | 1    |
|   | 29       | VJH4019-00D    | Handle Ass'y           | RC-S22L(BS)/L(ES)/JW(JS)              | 1    |
|   | "        | " -00H         | "                      | RC-S22L(EB)/C/JW(JB)/W(B)/LD(B)/W(BB) | 1    |
|   | 30       | VYH4584-001    | Spring                 |                                       | 2    |
|   | 31       | VYH4583-001    | Spacer                 |                                       | 2    |
|   | 32       | —              | Mechanism Ass'y        |                                       | 1    |
|   | 33       | VXL4126-001    | Tuning Knob            |                                       | 1    |
|   | 34       | —              | Main P.W. Board Ass'y  |                                       | 1    |
|   | 35       | VYH5187-003    | F. Core Antenna Holder |                                       | 1    |
|   | 38       | VMMB62N-002    | E.C. Mic.              |                                       | 1    |
|   | 39       | —              | Volume Board Ass'y     |                                       | 1    |
|   | 40       | —              | DC Jack Board Ass'y    |                                       | 1    |
|   | 41,42,46 | ZCRCS22Y-CBF-B | Front Cabinet Ass'y    | Black                                 | 1    |
|   | "        | ZCRCS22Y-CBF-S | "                      | Silver                                | 1    |
|   |          |                | "                      | Black                                 | 1    |
|   | 41       | VJC2110-001    | Front Cabinet          | RC-S22JW(JS)/L(BS)/L(ES)/W(B)/W(BB)   | 1    |
|   | "        | " -0012        | "                      | RC-S22JW(JB)/C/L(EB)/LD(B)            | 1    |
|   | 42       | VJD3394-001    | Speaker Panel          | RC-S22JW(JS)/L(BS)/L(ES)/W(BB)        | 1    |
|   | "        | " -002         | "                      | RC-S22JW(JB)/C/L(EB)/LD(B)/W(B)       | 1    |

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

| △ | Ref. No.  | Parts No.      | Parts Name          | Remarks  | Q'ty |
|---|-----------|----------------|---------------------|--|------|
|   | 43        | VYTT427-001    | Sheet A             |  | 1    |
|   | 44        | EAS-8P121SA    | Speaker             |  | 1    |
|   | 45        | VYH5167-001    | Clamp               |  | 2    |
|   | 46        | VJK3208-005    | Dial Lens           | RC-S22LD(B)/L(EB)  | 1    |
|   | "         | " -006         | "                   | RC-S22L(BS)  | 1    |
|   | "         | " -007         | "                   | RC-S22W(B)/JW(JB)/C/W(BB)  | 1    |
|   | "         | " -008         | "                   | RC-S22JW(JS)   | 1    |
|   | 47,49,107 | ZCRCS22Y-CCA-S | Cassette Door Ass'y | Silver   | 1    |
|   | "         | ZCRCS22Y-CCA-B | "                   | Black  | 1    |
|   | 47        | VJT3112-00F    | Cassette Door Ass'y | RC-S22L(BS)/L(ES)  | 1    |
|   | "         | " -00C         | "                   | RC-S22W(B)/W(BB)/JW(JB)/C  | 1    |
|   | "         | " -00E         | "                   | RC-S22L(EB)  | 1    |
|   | "         | " -00D         | "                   | RC-S22JW(JS)   | 1    |
|   | "         | " -00G         | "                   | RC-S22LD(B)  | 1    |
|   | 48        | VJT4079-001    | Cassette Cover      | RC-S22L(BS)/L(ES)/JW(JS)/LD(B)   | 1    |
|   | "         | " -002         | "                   | RC-S22W(B)/W(BB)/C/JW(JB)/L(EB)  | 1    |
|   | 49        | VYH5256-001    | Cassette Spring     |  | 1    |
|   | 50, 56    | ZCRCS22Y-CBR-S | Rear Cabinet Ass'y  | Silver   | 1    |
|   | "         | ZCRCS22Y-CBR-B | "                   | Black  | 1    |
|   | 50        | VJC2111-001    | Rear Cabinet        | RC-S22L(BS)/L(ES)/JW(JS)/W(BB)   | 1    |
|   | "         | " -012         | "                   | RC-S22LD(B)/L(EB)/JW(JB)/C/W(B)  | 1    |
|   | 51        | VJA3013-00A    | Telescopic Antenna  |  | 1    |
|   | 52        | VYH4954-003    | T. Antenna Holder   |  | 1    |
|   | 53        | VYH5334-001    | Bracket             |  | 1    |
|   | 54        | ZCRCS22Y-BCA-S | Battery Cover       |  | 1    |
|   | "         | ZCRCS22Y-BCA-B | "                   |  | 1    |
|   | 56        | VYN5086-002C   | Name Plate          | RC-S22JW(JB)/JW(JS)  | 1    |
|   | "         | " -003C        | "                   | RC-S22W(B)   | 1    |
|   | "         | " -004C        | "                   | RC-S22C  | 1    |
|   | "         | " -006C        | "                   | RC-S22L(BS)/L(ES)/L(EB)  | 1    |
|   | "         | " -007C        | "                   | RC-S22LD(B)  | 1    |
|   | 81        | REE2500        | E-Ring              | T. Shaft   | 1    |
|   | 83        | Q03095-203     | Washer              | F. Core Antenna  | 2    |
|   | 85        | VKZ4013-001    | Special Screw       | Mecha. — P.W.B. x 1  | 1    |
|   | 86        | SPSK1716M      | Mini Screw          | Rec. Spring x 1  | 1    |
|   | 88        | SBSF2608Z      | Tap. Screw          | DC Jack x 1, F. Core Antenna Holder x 2,<br>Mecha. Bracket — Chassis x 2             | 5    |
|   | 89        | F00410-24N     | "                   | Chassis — D. Back x 2  | 2    |
|   | 90        | SBSF2008Z      | "                   | Chassis — G.P.W. Board   | 1    |
|   | 91        | SBSF2606Z      | "                   | Speaker x 2, Chassis — P.W.B. x 2, VR P.W.B. x 1                                     | 5    |
|   | 92        | SPSH1740N      | Mini Screw          | Front Cabinet — Chassis x 1, Mecha. — Chassis (Top)<br>x 3, Bracket — F. Cabinet x 1 | 5    |
|   | 95        | SPSH1730N      | "                   | Bracket — Chassis x 1, Mecha. Bracket — P.W.B. x 1                                   | 2    |
|   | 96        | SSSK1720M      | "                   | Inner Lay x 5  | 5    |
|   | 97        | SSSH1740M      | "                   | Drum x 1   | 1    |
|   | 98        | SPSF2612R      | Tap. Screw          | Chassis — Front x 1  | 1    |
|   | 99        | SPSF2625R      | "                   | (F. Cabinet — Chassis — P.W.B. — R. Cabinet) x 5,<br>Ant. — R. Cabinet x 1           | 6    |
|   | 100       | SPSP2606R      | Screw               |  | 1    |
|   | 101       | SPSP2605R      | Tap. Screw          | Bracket — R. Cabinet x 1   | 1    |
|   | 102       | VYSS1R1-009    | Spacer              |  | 1    |
|   | 103       | VYSA1R4-030    | "                   |  | 3    |
|   | 104       | VYSR102-026    | "                   | DC Jack P.W.B. x 1   | 1    |

|  | Ref. No. | Parts No.   | Parts Name | Remarks | Q'ty |
|---|----------|-------------|------------|---------|------|
|   | 105      | VYSA1R6-034 | "          |         | 2    |
|   | 106      | VYSS2R2-004 | "          |         | 2    |
|   | 107      | VYSA2R4-001 | "          |         | 2    |
|   | 108      | VYSR103-019 | "          |         | 3    |
|   | 109      | VYSA1R4-030 | "          |         | 5    |

# Mechanical Component Parts List

| Ref. No. | Parts No.   | Parts Name              | Remarks             | Q'ty |
|----------|-------------|-------------------------|---------------------|------|
| 1        | VKL2187-00E | Chassis Base Ass'y      |                     | 1    |
| 2        | VKW3002-103 | Tension Spring          | Stop Bar, Eject Bar | 2    |
| 3        | VKW3006-052 | Torsion Spring          | Play Bar            | 1    |
| 4        | VKW3002-118 | Tension Spring          | Rec.                | 1    |
| 5        | VKZ4139-001 | Silencer                |                     | 1    |
| 6        | VKS3156-001 | FF Bar                  |                     | 1    |
| 7        | REE1500     | E-Ring                  |                     | 2    |
| 8        | VKS3157-002 | Rew. Bar                |                     | 1    |
| 9        | REE2000     | E-Ring                  |                     | 1    |
| 10       | VKL5239-001 | Switch Lever            |                     | 1    |
| 11       | REE1500     | E-Ring                  |                     | 1    |
| 12       | VSH1203-004 | Leaf Switch             | Motor               | 1    |
| 13       | SPSK1725M   | Mini Screw              |                     | 1    |
| 14       | VKS4472-002 | Lock Adapter            |                     | 1    |
| 15       | SPSK1416M   | Mini Screw              |                     | 1    |
| 16       | VKL5240-00E | Lock Cam Bracket Ass'y  |                     | 1    |
| 17       | SPSK1716M   | Mini Screw              |                     | 2    |
| 18       | VKP4124-00A | Pinch Roller Arm Ass'y  |                     | 1    |
| 19       | VKW3006-047 | Torsion Spring          | Pinch Roller        | 1    |
| 20       | REE2000     | E-Ring                  |                     | 1    |
| 21       | VKW3006-048 | Torsion Spring          | Head Base           | 1    |
| 22       | VGH0211-007 | R/P Head Ass'y          |                     | 1    |
| 23       | VKW4369-002 | Azimuth Spring          |                     | 1    |
| 24       | SPSX2006N   | Screw                   | Azimuth             | 1    |
| 25       | VKS4472-002 | Tape Guide Arm          |                     | 1    |
| 26       | VKW3002-102 | Tension Spring          | T. Guide            | 1    |
| 27       | REE2000     | E-Ring                  | E. Head Lever       | 1    |
| 28       | VKZ4001-012 | Wire Clamp              |                     | 1    |
| 30       | SPSK1725M   | Mini Screw              | Counter Bracket     | 2    |
| 31       | XDE-5A3LD   | Motor                   |                     | 1    |
| 32       | VKZ4015-003 | Rubber Bushing          |                     | 3    |
| 33       | VKH4375-001 | Motor Bushing           |                     | 3    |
| 34       | SPSK1735M   | Mini Screw              |                     | 2    |
| 35       | VKB3000-073 | Belt                    |                     | 1    |
| 36       | VKR4308-002 | Sub Gear                |                     | 1    |
| 37       | SPSK1740N   | Screw                   | Motor               | 1    |
| 38       | FOO411-01   | Cug                     |                     | 1    |
| 39       | Q03093-835  | Washer                  |                     | 1    |
| 40       | Q03093-846  | Spacer                  |                     | 1    |
| 41       | VKF3121-00F | Flywheel Capstan Ass'y  |                     | 1    |
| 42       | Q03093-830  | Washer                  | Thrust              | 1    |
| 43       | REE1600     | E-Ring                  |                     | 1    |
| 44       | VKY4263-003 | Head Base Spring        |                     | 1    |
| 45       | SPSK1716M   | Mini Screw              |                     | 1    |
| 46       | VKS4498-001 | Cue Review Lever        |                     | 1    |
| 47       | VKH3013-015 | Flange Collar           | C.R. Lever          | 1    |
| 48       | SSSK1735M   | Mini Screw              |                     | 1    |
| 49       | SPSK1716M   | "                       |                     | 4    |
| 50       | VKL3436-00A | Reel Disk Bracket Ass'y |                     | 1    |
| 51       | VKW3002-105 | Tension Spring          | Kick Lever          | 1    |
| 52       | " -113      | "                       | FF Rew. Bar         | 2    |
| 53       | " -111      | "                       | Take-up Lever       | 1    |
| 54       | SPSP2004N   | Screw                   | R/P Head            | 1    |
| 55       | VKR4293-00A | Take-up Clutch Ass'y    |                     | 1    |

| Ref. No. | Parts No.    | Parts Name            | Remarks       | Q'ty |
|----------|--------------|-----------------------|---------------|------|
| 56       | VKR4296-001  | FF Gear               |               | 1    |
| 57       | VKH3013-016  | Flange Collar         |               | 1    |
| 58       | SSSK1420M    | Mini Screw            |               | 1    |
| 59       | VKR4297-00A  | F.R. Clutch Ass'y     |               | 1    |
| 60       | VKR4300-001  | Middle Gear           |               | 1    |
| 61       | VKR4301-001  | Cam Gear              |               | 1    |
| 62       | VKR4302-001  | Rew. Gear (2)         |               | 1    |
| 63       | VKR4303-001  | " (1)                 |               | 1    |
| 64       | VXP4242-003  | Stop Button           |               | 1    |
| 65       | VXP4243-003  | Play Button           |               | 1    |
| 66       | VXP4244-003  | FF Button             |               | 1    |
| 67       | VXP4245-003  | Rew. Button           |               | 1    |
| 68       | VXP4246-003  | Eject Button          |               | 1    |
| 69       | VGH0212-406  | Magnet Erase Head     |               | 1    |
| 70       | VKS4475-002  | E. Head Lever         |               | 1    |
| 71       | VKZ4017-001  | Special Screw         |               | 1    |
| 72       | VKW4378-001  | E. Head Lever Spring  |               | 1    |
| 74       | VXP4262-002  | Rec Button            |               | 1    |
| 75       | VKZ4004-004  | Special Washer        |               | 7    |
| 76       | Q03093-838   | Washer                | Flywheel      | 1    |
| 79       | VKW3002-107  | Tension Spring        | REW. Lever    | 1    |
| 80       | " -121       | "                     | REC. Safety   | 1    |
| 81       | VYH5143-001  | Lower Bracket         |               | 1    |
| 82       | SPSK1720M    | Mini Screw            |               | 2    |
| 83       | VKL3441-001  | Motor Bracket         |               | 1    |
| 84       | SBSF2008Z    | Screw                 |               | 4    |
| 85       | VKL5382-00B  | Counter Bracket Ass'y |               | 1    |
| 86       | VKC5159-001T | Tape Counter          |               | 1    |
| 87       | VKB3000-066  | Belt                  |               | 1    |
| 88       | SPSK1720M    | Mini screw            | Motor Bracket | 3    |
| 89       | This DWD     | Washer                |               | 2    |
| 90       | UYSS1R3-001  | Spacer                | Motor Bracket | 1    |



# Packing

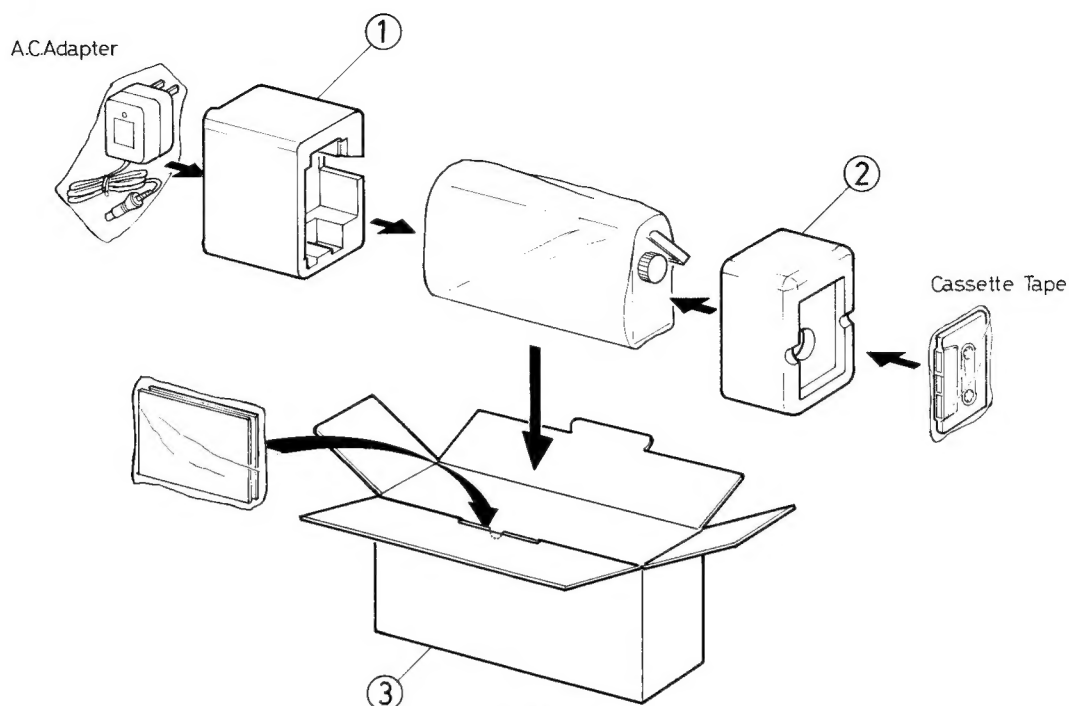



Fig. 22

## Positions of controls and switch knobs at renewal packing:

|               |                        |
|---------------|------------------------|
| TONE          | : MAX                  |
| VOLUME        | : MAX                  |
| BAND SELECTOR | : MW/AM & SW6          |
| FUNCTION      | : TAPE (RADIO STANDBY) |
| BEAT CUT      | : 2                    |
| PAUSE         | : OFF                  |
| TUNING        | : Approx. 600 kHz      |
| COUNTER       | : 000                  |
| BATTERY SAVE  | : OFF                  |

| Ref. No. | Parts No.     | Parts Name  | Remarks                 | Q'ty |
|----------|---------------|-------------|-------------------------|------|
| 1        | VGB0005-005   | Cushion (L) |                         | 1    |
| 2        | VGB0011-001   | " (R)       |                         | 1    |
| 3        | VPD5086-J01   | Carton      | RC-S22W                 | 1    |
| "        | " -J03        | "           | RC-S22JW                | 1    |
| "        | " -J09        | "           | RC-S22L(BS)/L(ES)/L(EB) | 1    |
| "        | " -J19        | "           | RC-S22L(RS)             | 1    |
| "        | " -J17        | "           | RC-S22LD(B)             | 1    |
|          | VHPJ040-022   | Paper Sheet | RC-S22W(B)              | 1    |
|          | QPGA007-01003 | Poly Bag    | for Siemens Plug        | 1    |
|          | QPG017-02404  | "           | for Instruction Book    | 1    |
|          | E66146-003    | "           | for Warranty Card       | 1    |

# Accessories

|  | Parts No.    | Parts Name             | Remarks                       | Q'ty |
|---|--------------|------------------------|-------------------------------|------|
|   | VYA4002-001  | Short Plug             |                               | 1    |
|   | VMA0914-301  | Instruction Book       | RC-S22L(BS)/LD(B)             | 1    |
|   | VNM0902-901  | "                      | RC-S22C/W(B)/JW(JB)           | 1    |
|   | VNM0922-101  | "                      | RC-S22W(BB)                   | 1    |
|   | VGT12S2-J05  | Cassette Tape          |                               | 1    |
|   | VNF0894-001  | Feature Sticker        |                               | 1    |
|   | BT20060C     | Guaranty Certificate   | RC-S22L(BS)/LD(B)/L(ES)/L(EB) | 1    |
|   | BT20066C     | "                      |                               | 1    |
|   | VGB0005-006  | AC Adaptor             | RC-S22W(W(BB)                 | 1    |
|   | VPZ4001-001  | Serial Ticket          | RC-S22L(BS)/L(ES)/L(EB)/LD(B) | 1    |
|   | " -002       | "                      | RC-S22L(RS)                   | 1    |
|   | VNC5202-006  | AC Adaptor Instruction | "                             | 1    |
|   | BT20065      | Warranty Card          | RC-S22LD(B)                   | 1    |
|   | BT20054-003A | Caution Sheet          | "                             | 1    |
|   | VGB0011-002  | AC Adaptor             | RC-S22C                       | 1    |
|   | BT20025F     | Warranty Card          |                               | 1    |
|   | BT20013C     | Guaranty Certificate   | RC-S22W(BB)                   | 1    |
|   | 31465-18     | Mark                   | "                             | 1    |
|   | QME1308-004  | Earphone               | RC-S22W(B)                    | 1    |
|   | V04062-001   | Siemens Plug           | "                             | 1    |
|   | VGB0011-001  | AC Adaptor             | RC-S22JW(JB)                  | 1    |
|   | BT20047A     | Warranty Card          | "                             | 1    |
|   | BT20046B     | Special Reply Card     |                               | 1    |

# JVC

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